Stick Figure Data

By David K Butler, Maths Learning Centre, University of Adelaide

These 32 data cards are designed for statistical activities.

Print the cards 16 to a page and cut them out to create the set of 32 cards.

There are nine variables presented on the cards, not including names: four numerical variables (age, height, average heart rate, and average temperature) and five categorical variables (mood, headgear, pet type, bike ownership, and stance).

The data have been carefully designed so that some pairs of variables have a clear relationship and some do not.

The main activity the cards are designed for is to arrange the cards spatially in order to investigate and display the relationships between pairs of variables. An instruction sheet is shown on the next page. I recommend letting the students look at the data cards and discussing what they see, then talking through the instructions before showing them the instruction sheet.



Stick Figure Data

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Each data card shows information about stick figure people, with nine variables shown on each card.

Choose one variable from each column below and circle them to complete the sentence.

(You can write your own variable as long as it can be figured out from what you see on the cards.)

How is	age	related to	age	· •
	height		height	
	heart rate		heart rate	
	temperature		temperature	
	mood		mood	
	stance		stance	
	headgear		headgear	
	pet type		pet type	
	bike ownership		bike ownership	
	(write your own)		(write your own)	

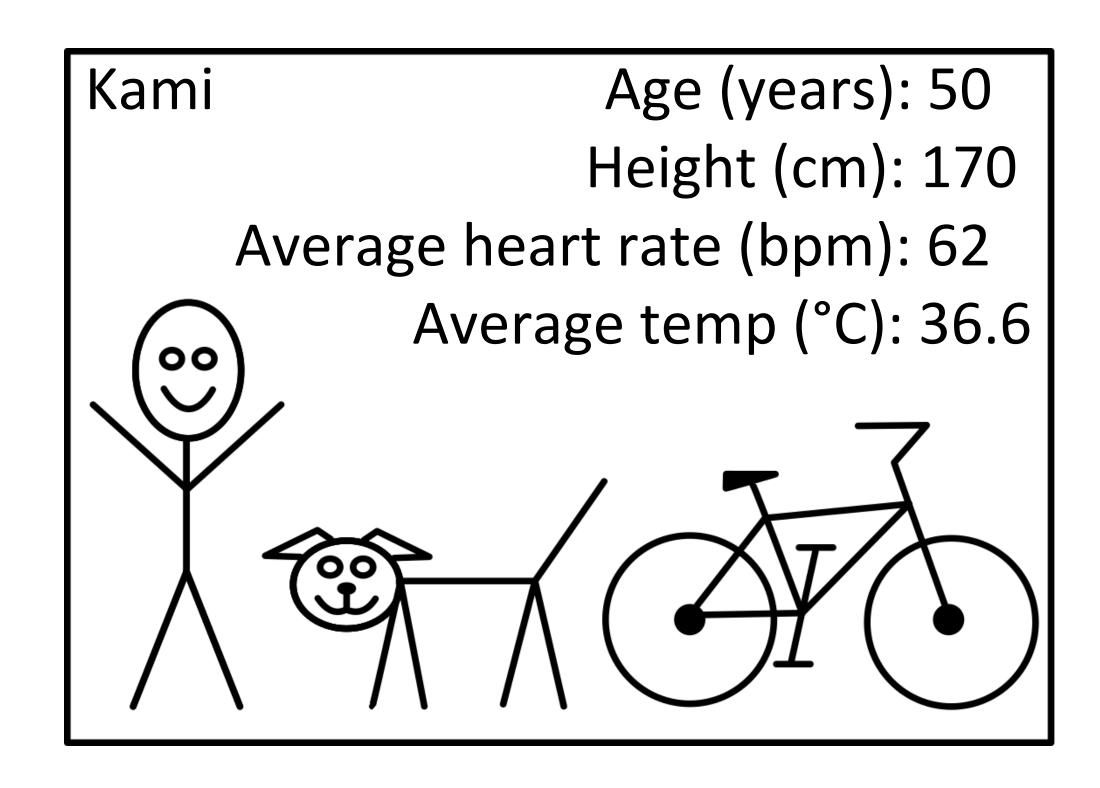
Arrange the data cards on the table so that someone else can **see** how ______ is related to ______.

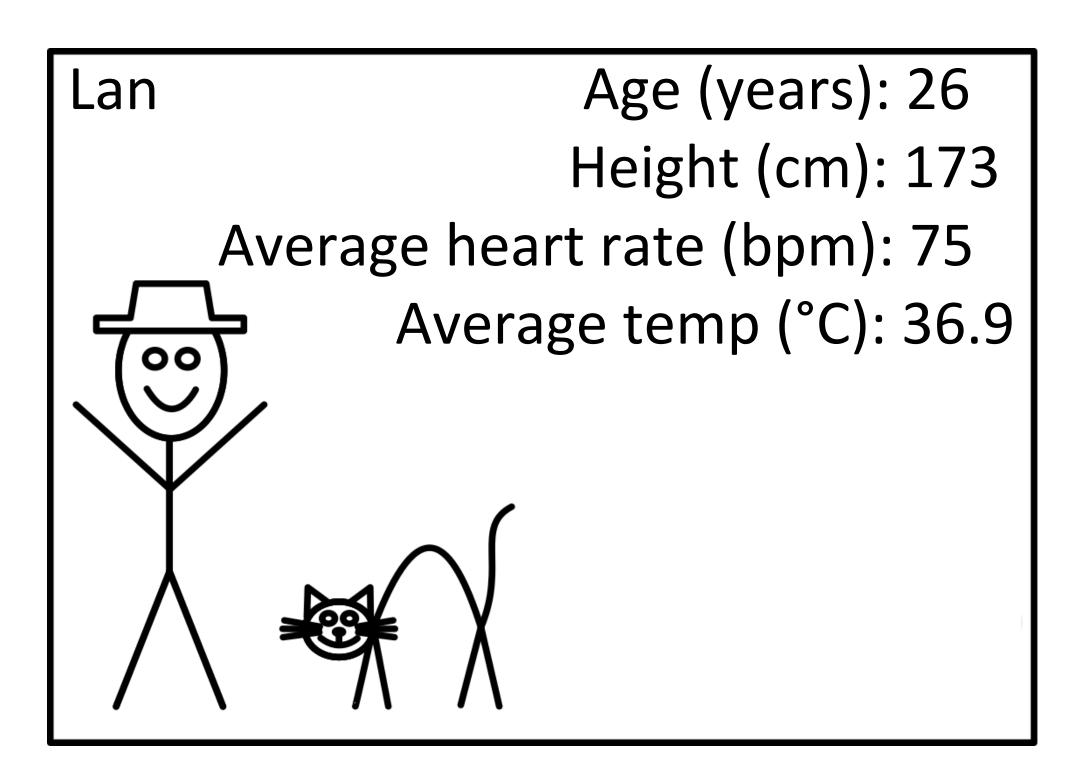
They have to be able to see the relationship from the way the cards are arranged without reading all the cards.

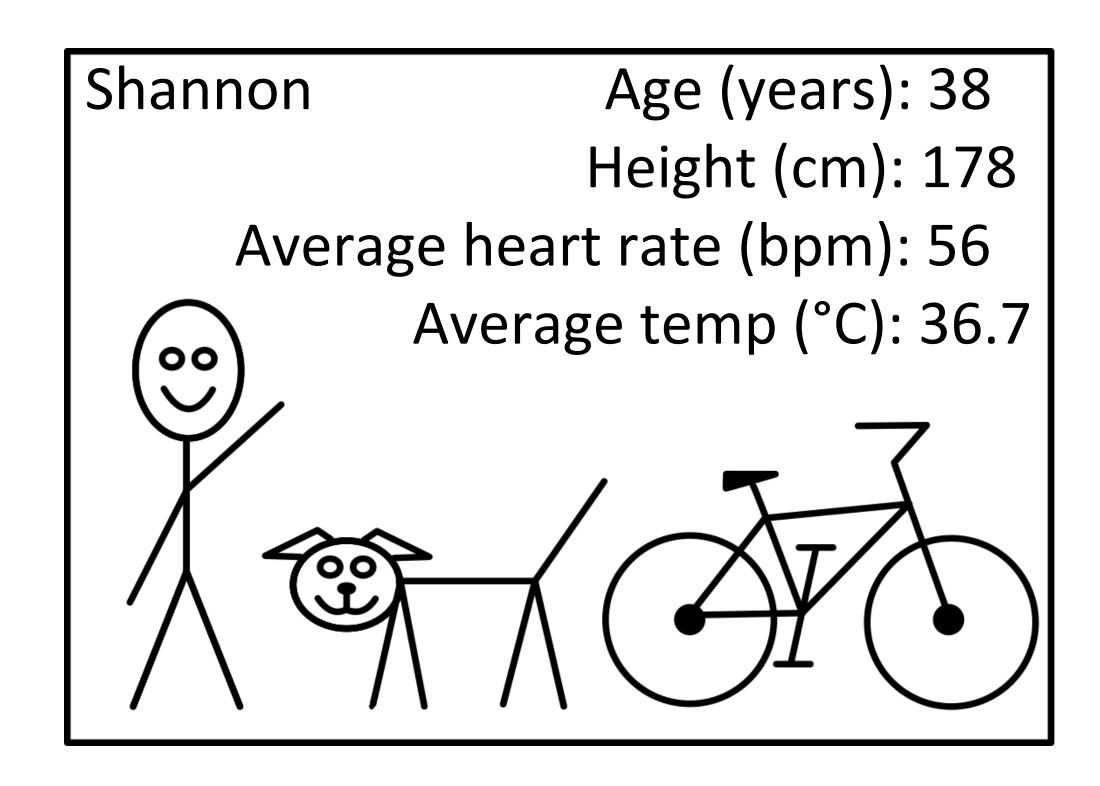
When you are happy with the arrangement, place this sheet next to the cards so that people know what to look for.

Then either investigate a new relationship with a fresh sheet and set of cards, or go to look at other people's card arrangements.









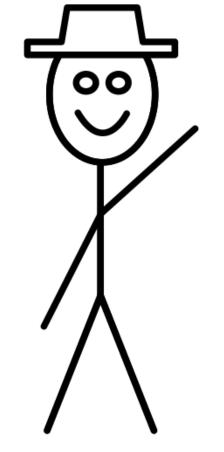
Darren

Age (years): 20

Height (cm): 165

Average heart rate (bpm): 100



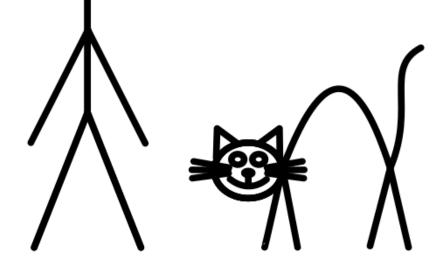


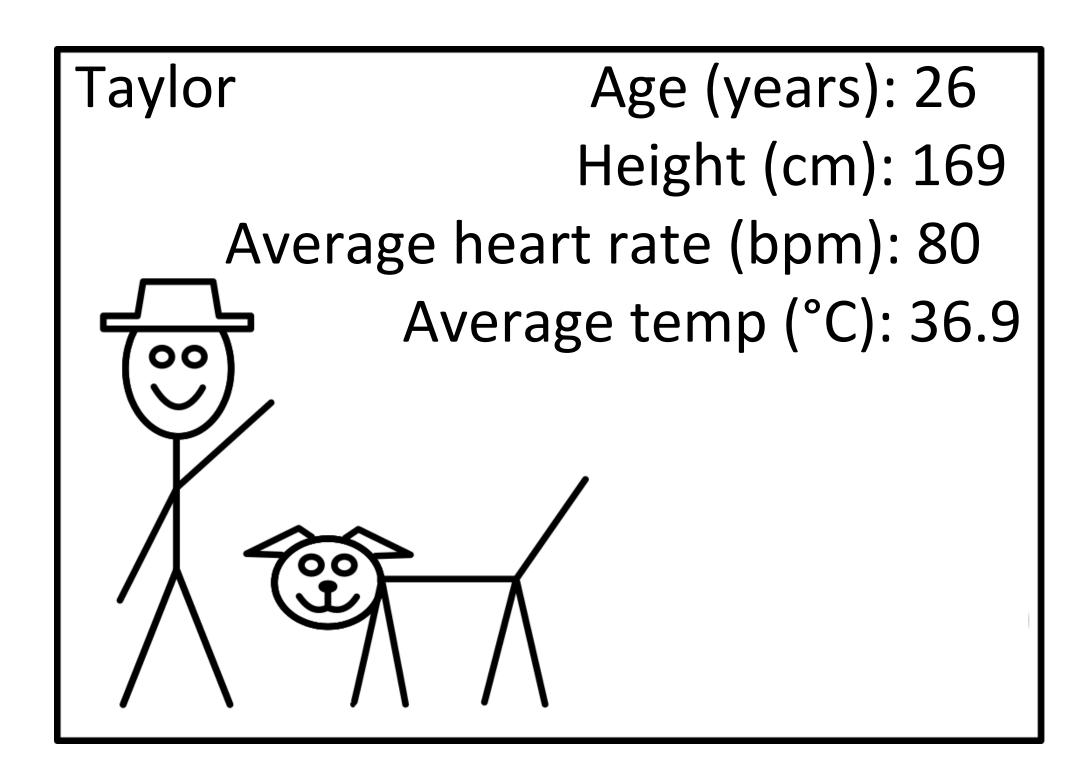
Brianna

Age (years): 26

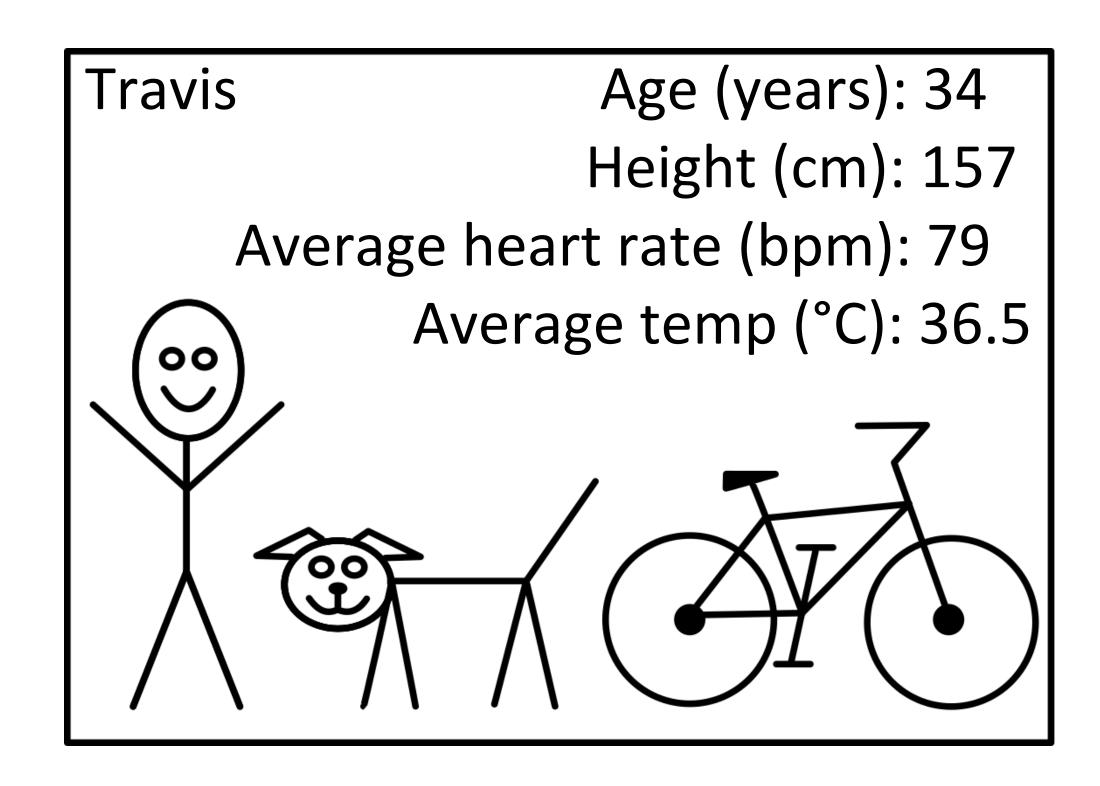
Height (cm): 160

Average heart rate (bpm): 85

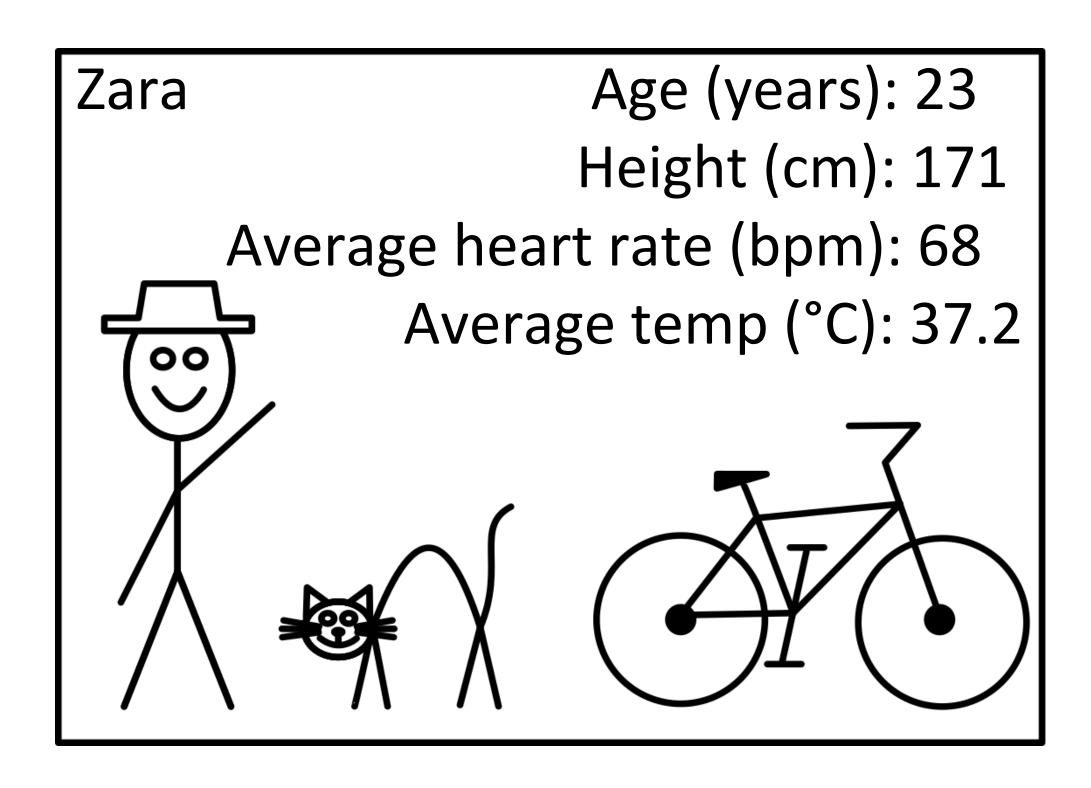


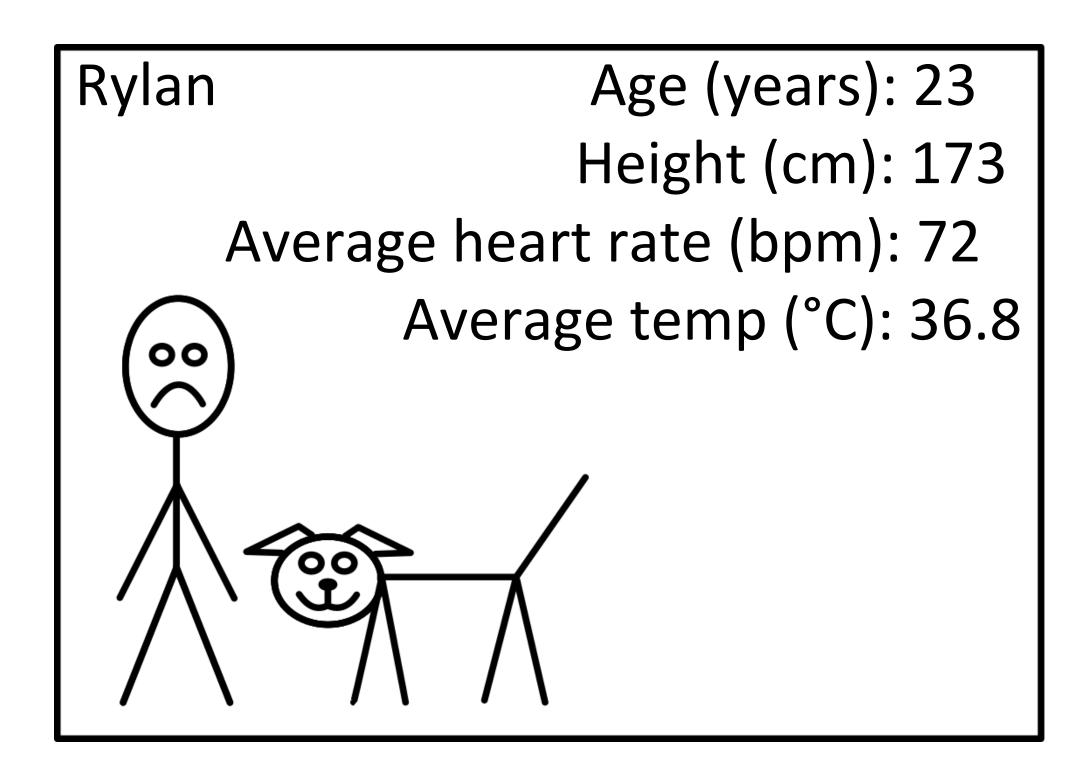


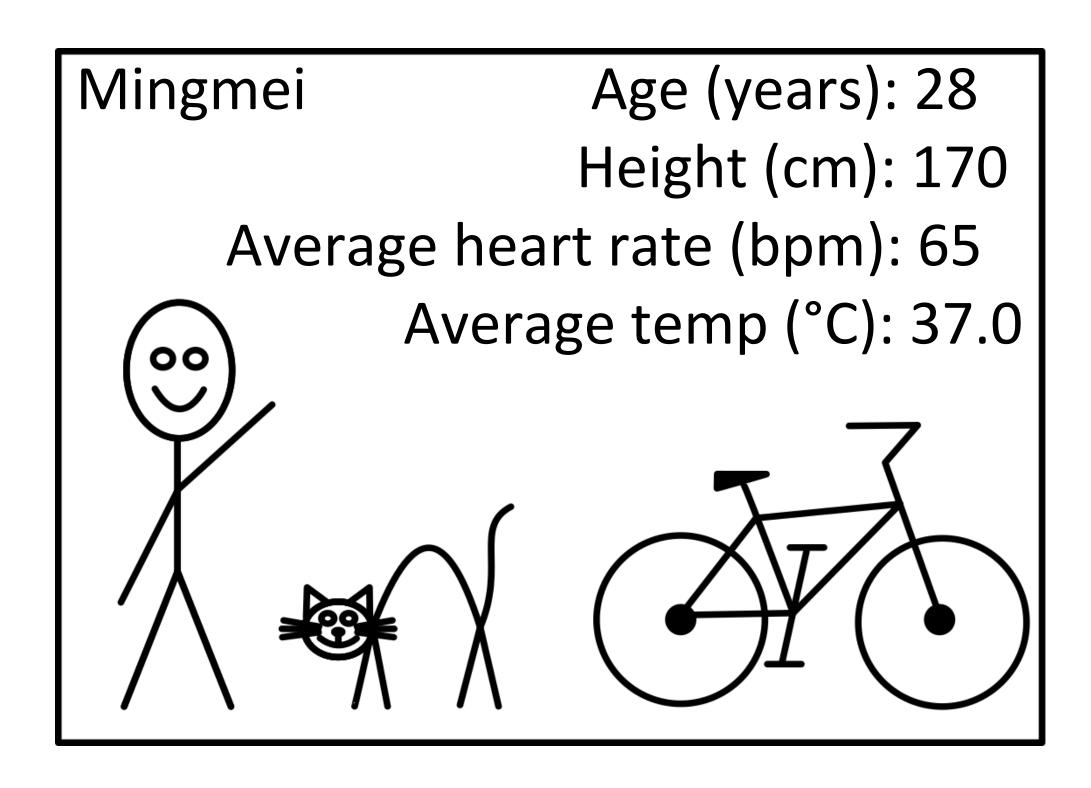
Prisha Age (years): 22 Height (cm): 178 Average heart rate (bpm): 64 Average temp (°C): 36.9



Age (years): 25 Bao Height (cm): 162 Average heart rate (bpm): 81 Average temp (°C): 36.9





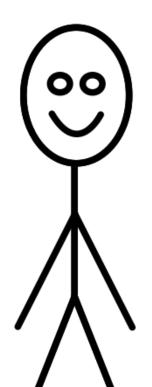


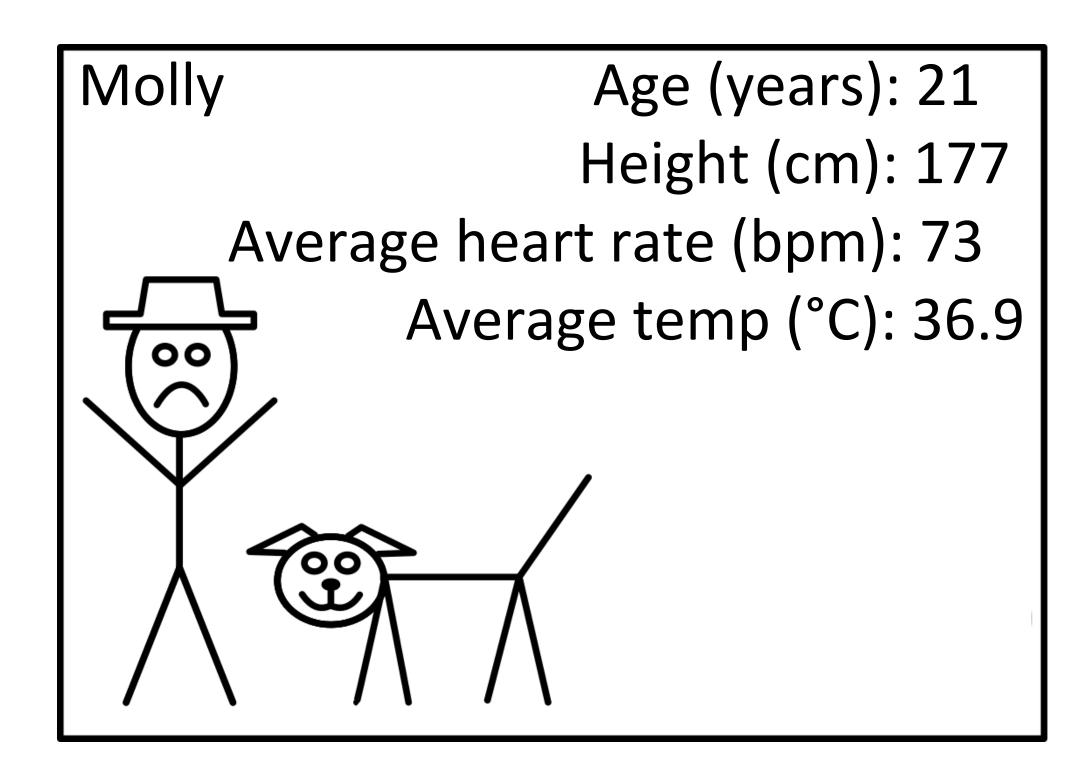
Muhammad

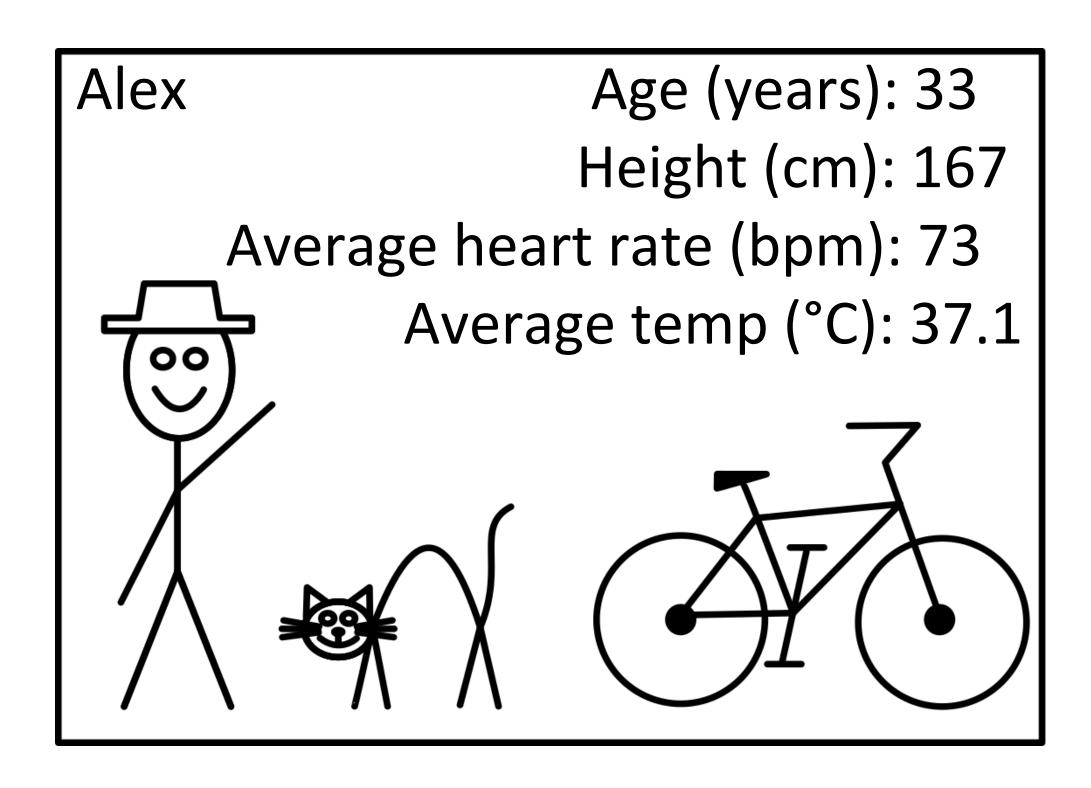
Age (years): 46

Height (cm): 167

Average heart rate (bpm): 95





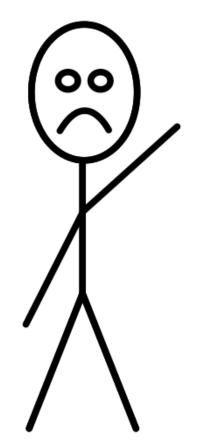


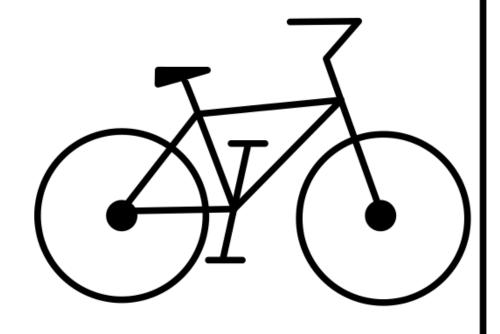
Leila

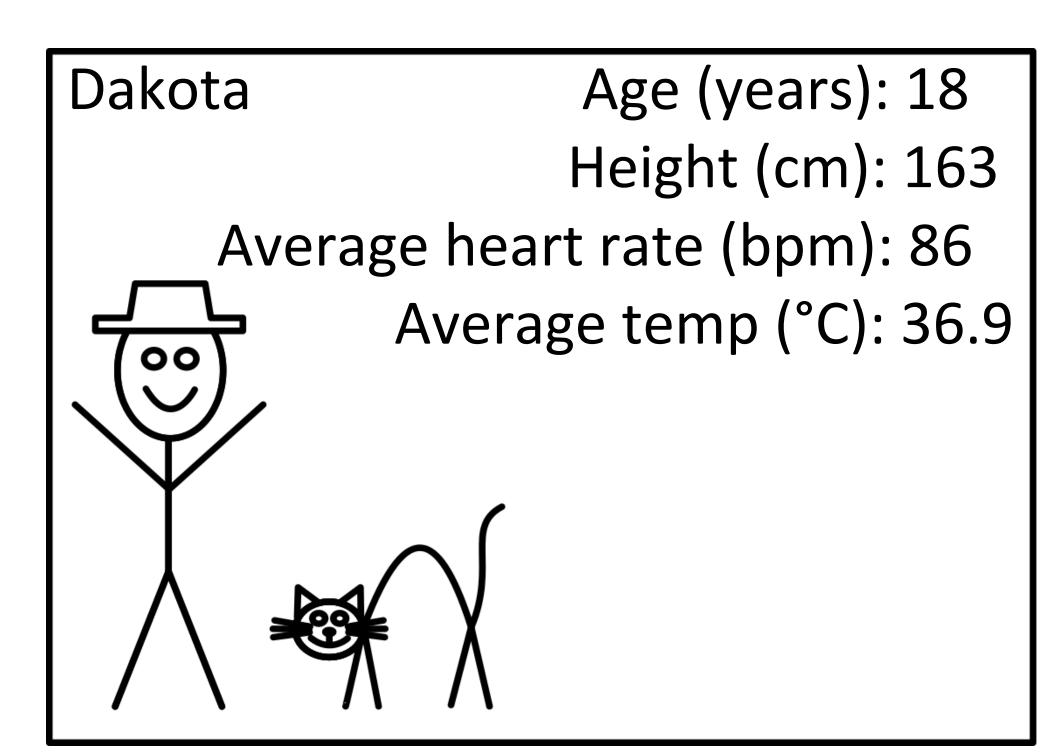
Age (years): 39

Height (cm): 172

Average heart rate (bpm): 73





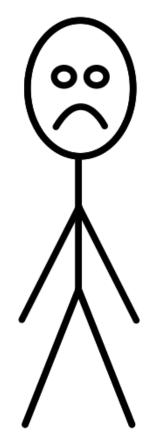


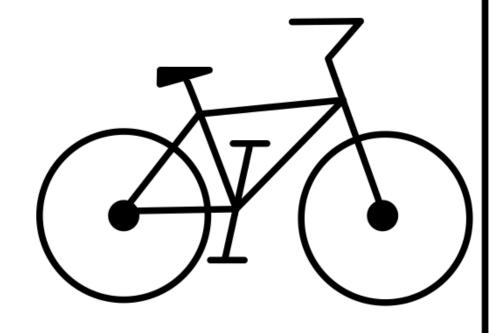
Sai

Age (years): 30

Height (cm): 169

Average heart rate (bpm): 79



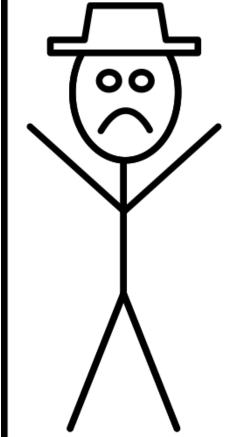


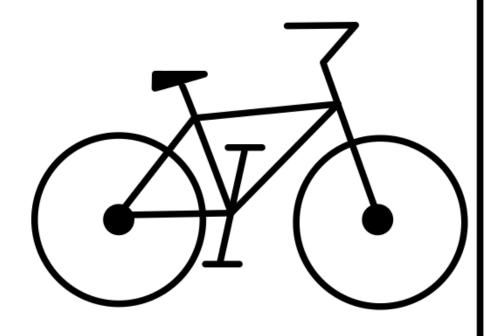
Jordan

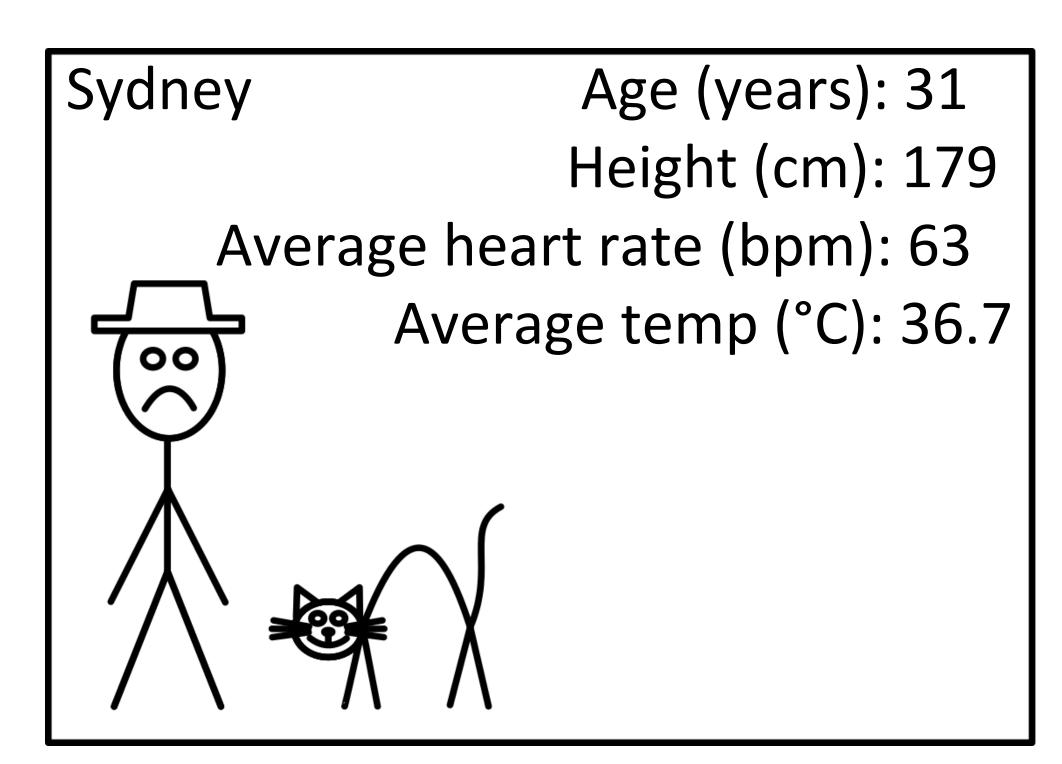
Age (years): 19

Height (cm): 175

Average heart rate (bpm): 77







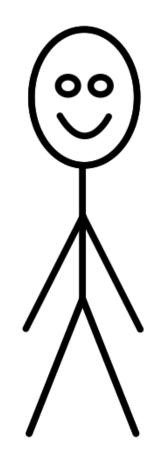
Charlie

Age (years): 29

Height (cm): 169

Average heart rate (bpm): 89





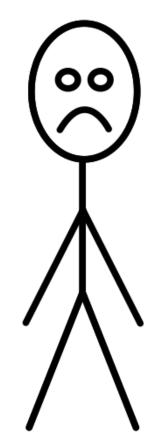
Sasha

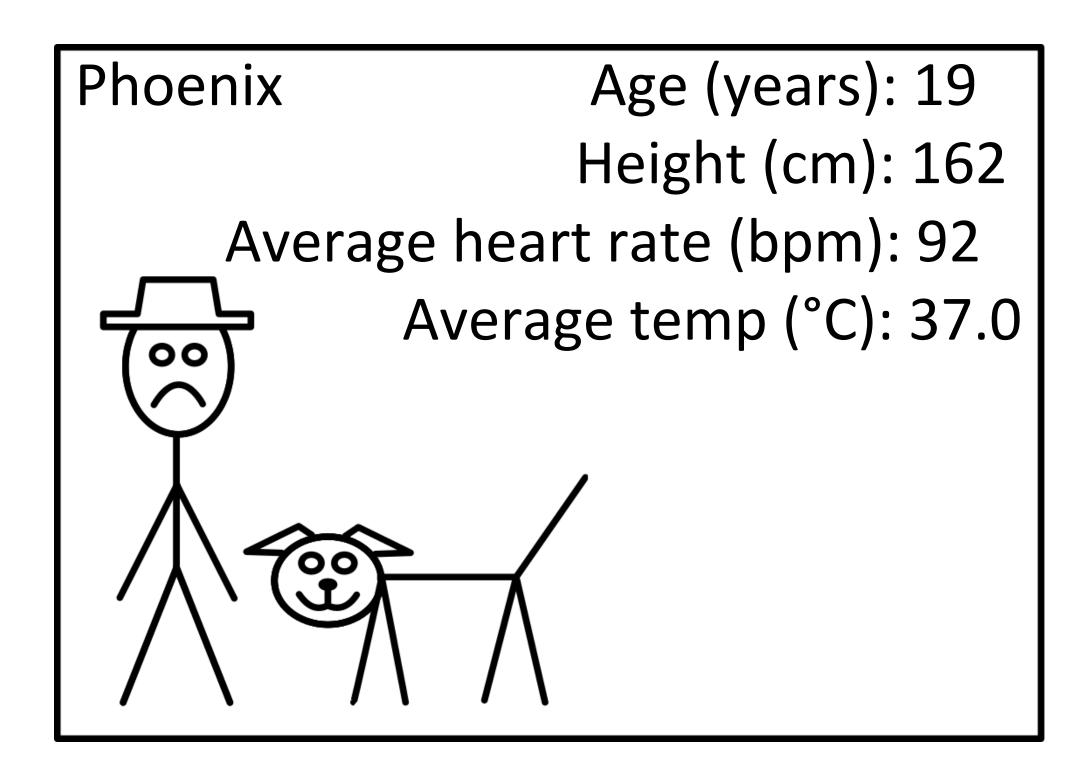
Age (years): 26

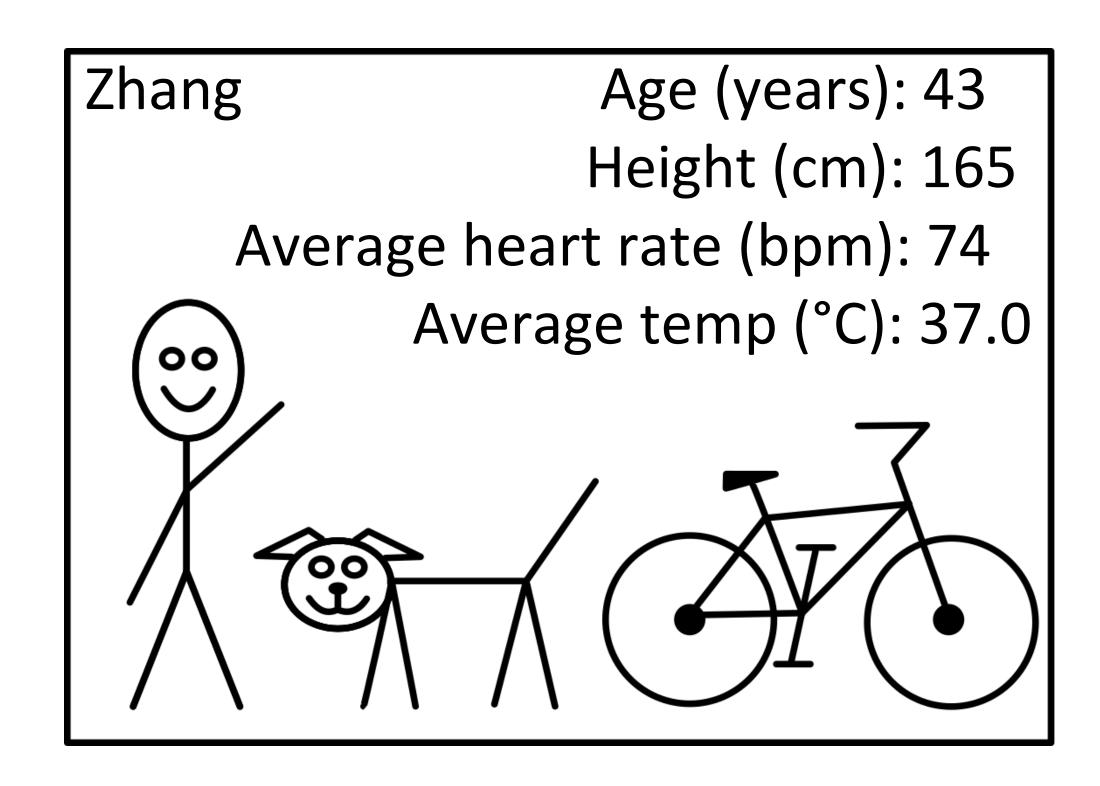
Height (cm): 174

Average heart rate (bpm): 85







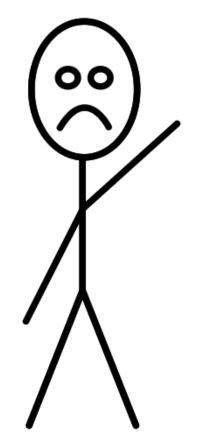


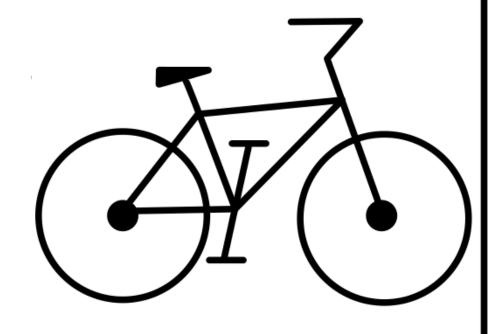
Sarah

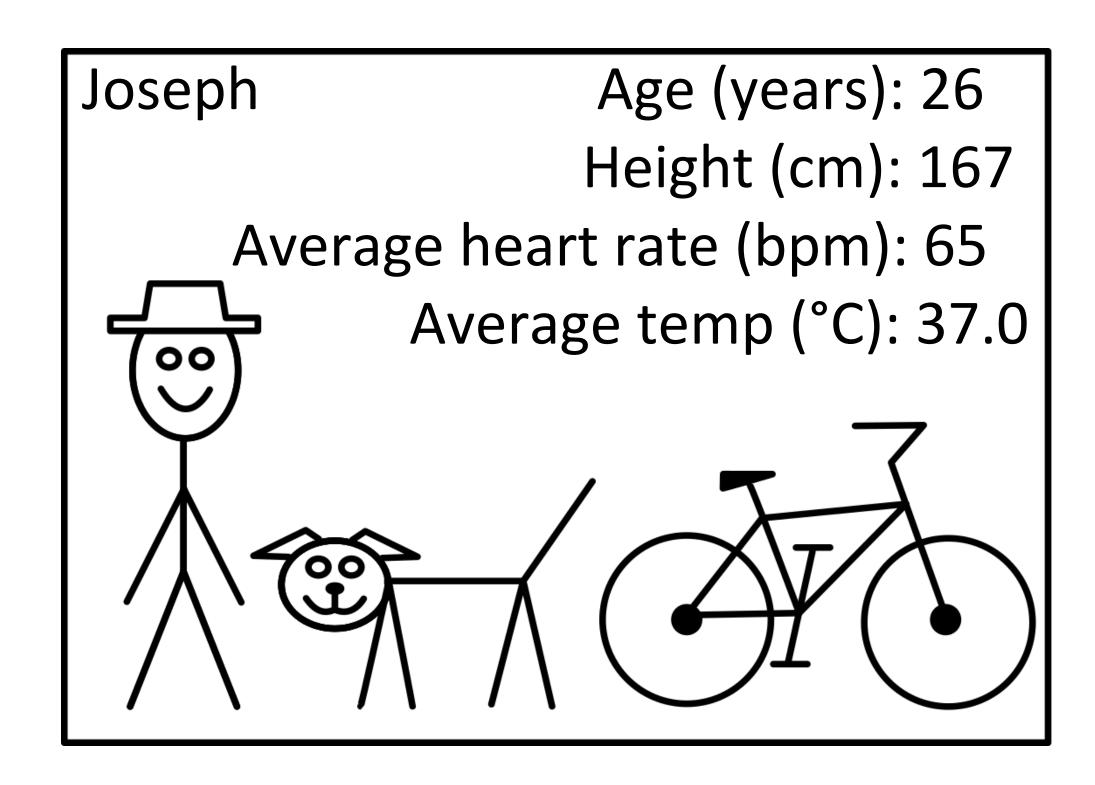
Age (years): 49

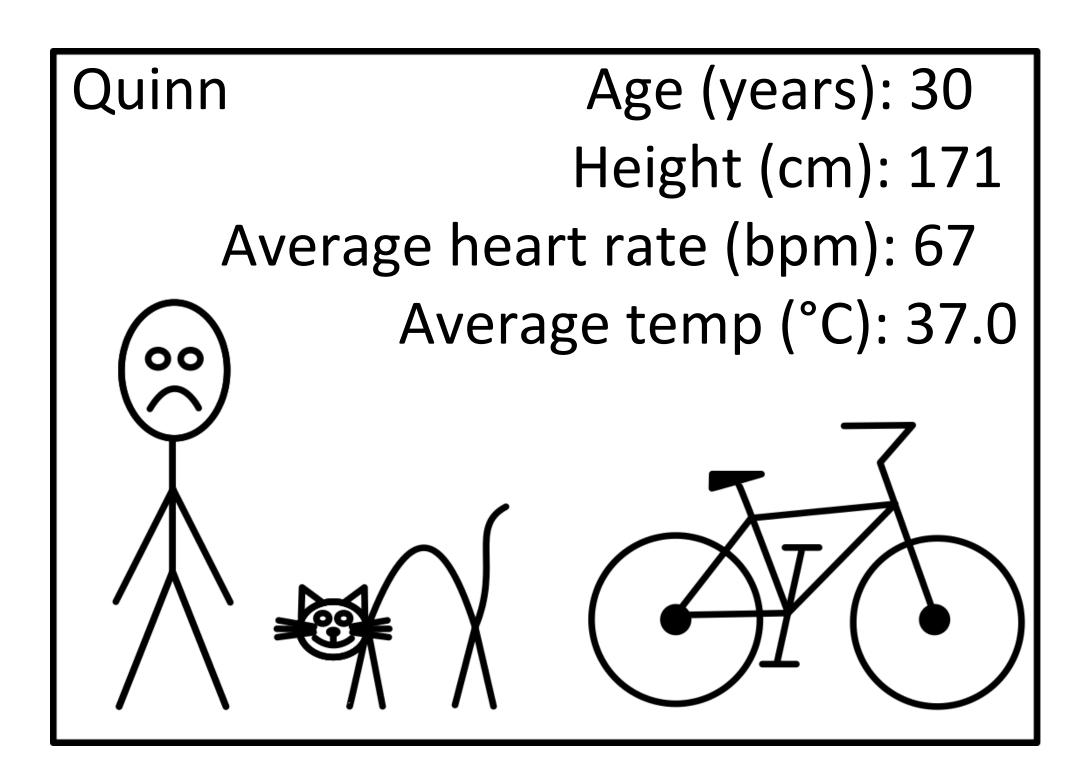
Height (cm): 172

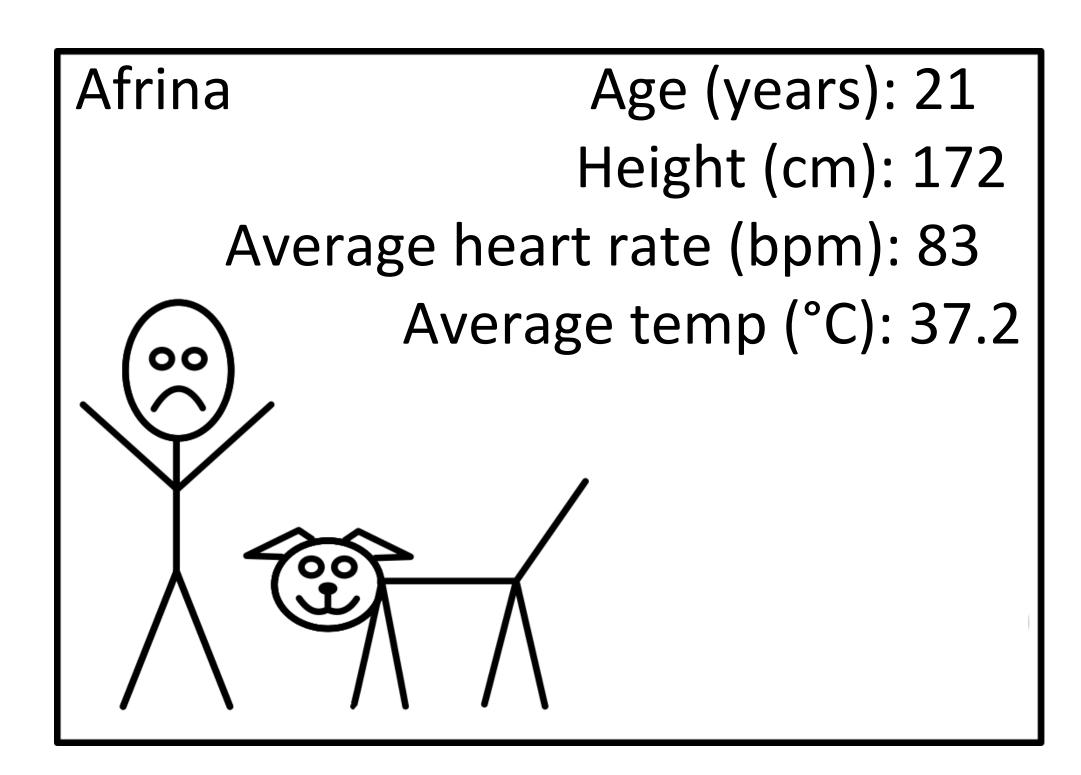
Average heart rate (bpm): 68

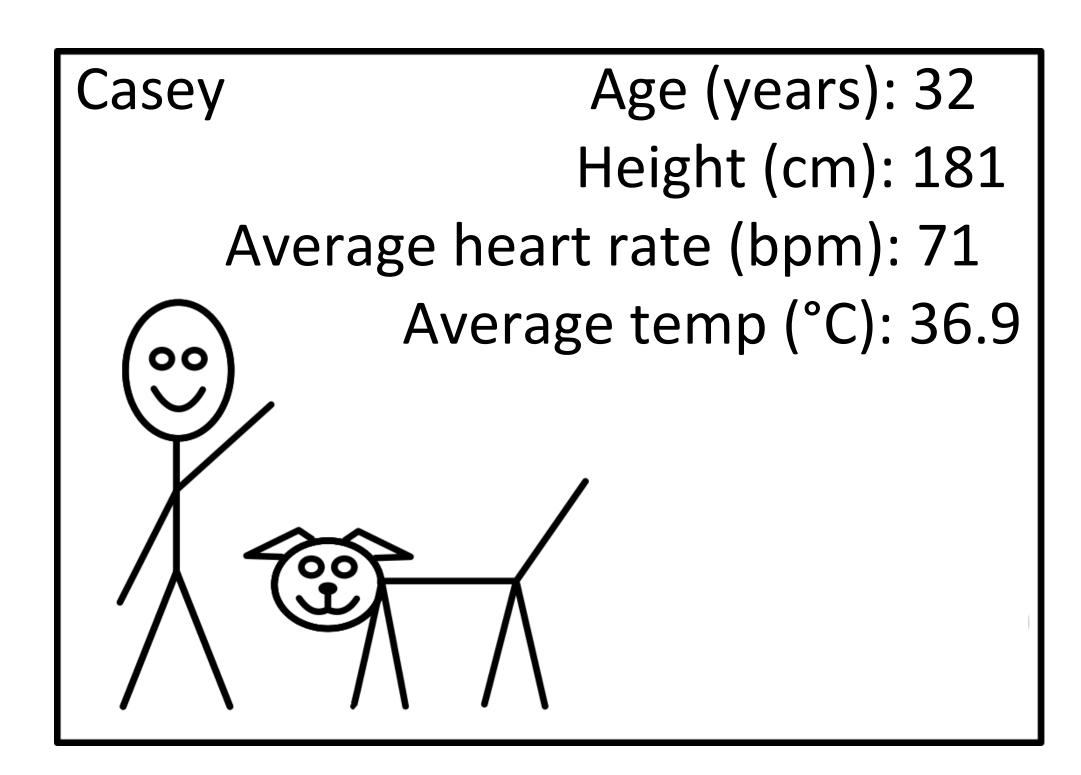


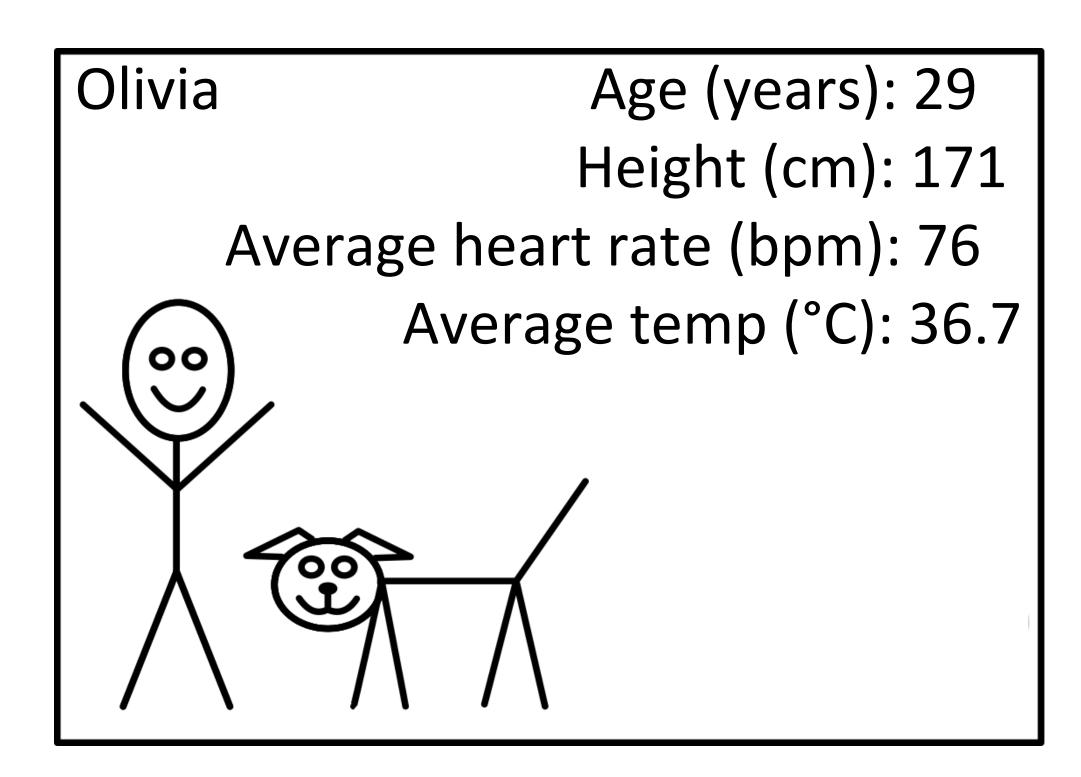












Matthew

Age (years): 23

Height (cm): 167

Average heart rate (bpm): 81

